

# MoA (Def Studies)

## PROPOSED SYLLABUS M.A./M.Sc. DEFENCE STUDIES

July 2003 onwards.

CCS UNIVERSITY MEERUT.

There shall be <sup>Name</sup> ~~eight~~ <sup>Five</sup> theory courses, each of 100 marks. ~~Four~~ courses have to be offered in <sup>First</sup> ~~each~~ year. There shall be a <sup>IX</sup> ~~IX~~ Course of Viva - Voce paper in Final Year of 100 marks. The Candidate has to qualify both in Theory and Viva - Voce separately.

### M.A./M.Sc. (Previous Examination)

Course - I : Theory and development of war since 1789 A.D. to 1945 A.D.

~~Code AB 195.~~

Course - II: War and International relations (Since 1945). Code AB 196.

Course - III & IV: <sup>Two</sup> Any two of the following:

- A. Economic Aspects of Defence. Code AB 294
- B. Operation Research. Code AB 295
- C. Ballistics. Code AB 296
- D. Psychology of War. Code AB 297
- E. Area Study. Code AB 298
- F. Insurgency and counter insurgency. Code AB 299

### M.A./M.Sc. (Final Examination)

Course -- V: International Law. Code AB 395

Course - VI: National Security of India. Code AB 396

Course - VII & VIII: Any two of the following courses:

- A. Disarmament Arms control and Peace. Code AB 495
- B. Man Power Studies. Code AB 496
- C. Science and Technology in War. Code AB 497
- D. Civil and Military Relations. Code AB 498

Course - IX: Viva - Voce.

*and four theory courses have to be offered in second year.*

*(Convener)*  
*ASHOK*

*14/7/03*

M.A./M.Sc. (Previous Examination)

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G-195

Course – I: Theory and Development of War from (1789 A.D. to 1945 A.D.)

(Code AB-195)

M.M. 100

The outstanding theorists: Their interpretation of military development and influences.

1. Pre-Revolution Warfare in the 18<sup>th</sup> Century. The influence of French Revolution. Napoleonic Warfare: Jomini & Clausewitz.
2. Maritime doctrines of War : Mahan's contribution.
3. Transformation of war in the 19<sup>th</sup> century : Moltke and Foch.
4. War & Industrial society: Marx and Engel's.
5. The legacy of the First World War: Prophets of Armoured warfare. Strategic air power and total war: Fuller, Liddell Hart, Douhet, Mitchel and Ludendroff.
6. ~~The influence of under water weapons and air power on land and sea warfare.~~
7. Theorists of guerrilla warfare : T.E. Lawrence and Mao-Tse-Tung.

Reference Books:

1. J.F.C. Fuller : Conduct of War.
2. Aron, Raymond : The Century of total Wars (Vera Cloyle London, 1964)
3. Falls Cyril : Hundred Years of War.
4. Alfred Vogts : A History of Militarism.
5. Earle : Makers of Modern strategy (Princeton, 1961).
6. Michael Howard : Grand Strategy of World War II (HMSO).
7. Montgomery : History of Warfare.
8. A. Westott : Mahan on Naval Warfare.
9. J.F.C. Fuller : History of the Western World.
10. Tedder : Air Power in War.
11. H. Belloe : Military History of the Western World.

Course- II : War and International Relations since 1945.

(Code ~~AB-196~~)

M.M. 100

1. **War in the Nuclear Age:** Different forms of war; Their nature and functions: Nuclear, Conventional, Limited and unconventional wars; Wars of intervention. Spread of Nuclear weapons. Strategies of containment, Massive Retaliation and Flexible response. Deterrence and détente.
2. **War and the international System:** Concept of Power, Balance of Power, Collective Security, Alliances and Military Blocks. Neutrality and Non-Alignment.
3. **War and Foreign Policy:** War as an instrument of state policy: Role of Forces in the Nuclear Age.
4. **Peace and its Preservation:** Peace Keeping in International Politics, Pillars of Peace, Causes, abolition and control of wars.
5. **Development of International Relations since 1945 A.D. between U.S.A, Russia, China and India (A brief study).**

Reference Books:

1. Wright, Q. : Study of War (Abridged Edition).
2. Howard, Michael : Study of War and Peace (Temple Smith)
3. Huntington : Chain Pattern of Military Politics.
4. John Garnett (Ed.): Theories of Peace & Security, a Reader on Contemporary Strategic thought (Parts two and Three Mc Milan).
5. Morgenthau, Hans G. Politics among Nations, the Struggle for Power and Peace (A Knopf N.Y. 1962)
6. Kissinger, H.A. Nuclear Weapons and Foreign Policy (PP 3-21) Harper 1957.
7. Kaufman, W.E. (ed.) Military Policy and National Security (PP. 253-267) Princeton 1956.
8. Waltz Kenneth : Man, The State and The War (PP 115).
9. Herz John II: International Politics in the Atomic Age (PP 111-223) Columbia P.B. 1952.
10. Aron Raymon Peace and War : Wiedenfield and Nicolson, 1976.
11. Problems of National Strategy (ed.) H.Kissinger, Problems if National Strategy (ed.) Alastar Buchan (Chatto and Windus).

M.A. (M.Sc.)

Course III & IV : Any two of the following may offered.

III & IV (A) Economics Aspects of Defence:

(Code XB-29A)

M.M. 100

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G-294

1. Pre War:

- a. **Internal Preparations:** Defence in peace time, its real burden and economic effects. Nature and estimate of war potential, Economic preparedness for war. Economics of Defence in the Nuclear Age (Elementary).
- b. **External Preparations:** Economics strategy to safeguard access to foreign sources of raw materials. Establishing and increasing foreign countries dependence on trade with the home country.

2. War:

- a. **Internal:** The Contrast between the Economics of War and peace. Mobilisation and transfer of manpower and resources, priority and allocation, price-control and rationing.
- b. **Financial:** Taxation borrowing and inflation. Balance of payment problems. Effects of World War II on Indian Economy (Eastern Group Supply Council)
- c. **External Foreign Trade:** Economic warfare, especially as it affects the neutrals.

3. Post War:

The transition from war to peace, reconstruction.

**Note:** Treatment to be elementary and with reference to India. A critical analysis of India's Defence budgets (A) 1947 to 1962, (B) 1963 to 1965, (C) 1966 to 1972, (D) Since 1971.

Reference Books:

1. Hitch, C.J. & Mckean, R.N.: Economics of Defence in the Nuclear Age.
2. Clark John J. : The New Economics of National Defence (New York) Random House (1966).
3. Schreff A.D. : Defence & Development with stability forum of free Enterprise- Bombay 1964.
4. Mirchandane 99 (ed.) Current Economic Problem (Ranjeet Printers and Pub. New Delshi).
5. Knerr Klaus : The war Potential of Nations (Princeton, 1960).
6. Official History of the Indian Armed Force of World War II. India War Economy (Supply, Industry and Finance).
7. The Arms Trade in International Relations.
8. Weapons system Decisions.
9. Prof. Galbraith: The Affluent Society.

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M.M. 100

Course III & IV : (B) Operational Research.  
(Code AB/295)

- a. Definition and origin scope and limitation, different types of models, their construction and general methods of solution, Simulation methods.
- b. Operational Research as used during the world war II
- c. Linear Programming: Transportation and Simplex Techniques, application to assignment problems, Non linear programming, Dynamical Programming.
- d. Theory of games its application in the Defence problems.
- e. Introduction to Information, Theory and Cybernetics.
- f. Inventory Control and Search Theory.

Reference Books:

- 1. Morce & Kimbal : Methods of Operation Research (Wiley, 1980).
- 2. Churchman, Ackoff & other : Introduction to Operations Research.
- 3. Hadely : Linear Programming.
- 4. Satty : Mathematical Methods of Operational Research.
- 5. Sansianni & others: Operational Research Methods of Problems.
- 6. Ackoff Progress of Operational Research (Wiley)
- 7. Quade : Analysis for Military Decisions (Rend McNally).

Course III & IV (D): Psychology of War  
(Code: ~~BA222~~)

1. **Psychology of Soldiers:**

Psychological factors in adjustment of soldiers. Military personal and Procedure of Selection, Classification and training. Officer Selection, Adjustment during Army life. Impact of war on soldiers, Fatigue, Physical stresses, their impact on soldiers. Problem of Veteran rehabilitation.

2. **Psychological Factors in Mechanical Warfare:**

A general idea of the basic aspects of human engineering utility in solving the problems of display and control Man machine system.

3. **Group Factors in Military Life:**

Group structure, Leadership Aptitude, other characteristics of efficient leadership, Morale.

4. **Psychological Warfare:**

Mass media of communication, nature and techniques of propaganda, Brain washing Psychology of rumour.

Reference Books:

1. Hunter, E. : Brain Washing in China.
2. Criuler, R. & Spiegel : War Neurosis.
3. Sherif & Sherif : An outline of Social Psychology.
4. Jennigns : Air war & Emotional Stress.
5. Ganga & Fleesman : Psychology and Human Engineering (Holt & Reisbart).

Course III & IV (E): Area Study  
(Code ~~NB 298~~)

M.M. 100

Any one of the following:

1. Himalayan States (Nepal and Bhutan)
2. Pakistan:

To be studied under the following main headings:

- a. Introduction, Geopolitical considerations.
- b. Physical Geography: Terrain Climate, Hydrographic features, human elements.
- c. Political Geography: Marginal Situation, Buffer Situation, Sub-division of land.
- d. Historical development: Past and Present.
- e. Economy: Defence Potential Industries, Communications, Trade, and other resources.
- f. Political system of Govt. International Relations.
- g. Alliances (Pacts), Attitudes.
- h. National Security Policy, Defence Preparedness.

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Course III & IV (F) : Insurgency and Counter Insurgency.  
~~(Code AB-799)~~

M.M. 100

1. Insurrection, Revolt and Insurgency, Guerrilla warfare and Revolutionary wars.
2. Phases of Insurgency,
3. Characteristics,
4. Strategy & Tactics of Guerilla Warfare,
5. Various Criteria governing insurgency, urban Guerillas.
6. Counter Insurgency: Its Principles and applications.
7. Thinkers: Lenin, Mao Tse Tung Che-Guevara.
8. History of Guerrilla Warfare: Specially since World War II.
9. The Chinese Revolution,
10. Failure of Insurgency in Malaya,
11. Success in India, China, Cuba and Vietnam.
12. The Insurgency in India, Bangladesh and Burma. (Myanmar)
13. Terrorism:
  - a. Concept and kind
  - b. National and International.
  - c. Cross Border Terrorism in India.

Reference Books:

1. Osanka, F.N. : Modern Guerilla Warfare. (The Free Press of Glencoe 1968)
2. Oblow Alexander : Hand book of Intelligence and Guerilla Warfare University of Michigan Press 1963.
3. Thompson, R. : Defeating Communist Insurgency (Studies in International Security 1967).
4. Rusi Pub : Lessons of the Vietnam War.